

# SEQUENCE LISTING

<110> Horvitz, H. Robert  
Hengartner, Michael

<120> IDENTIFICATION AND CHARACTERIZATION OF A  
GENE WHICH PROTECTS CELLS FROM PROGRAMMED CELL DEATH AND  
USES THEREOF

<130> 01997/201006

<150> 09/234,186

<151> 1999-01-20

<150> 07/898,933

<151> 1992-06-12

<150> 07/927,681

<151> 1992-08-10

<150> 08/288,295

<151> 1994-08-10

<150> 08/801,248

<151> 1997-02-19

<160> 8

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tat cgg cga cga acg atg gcg act ggc gag atg aag gag ttt ctg ggg      96
Tyr Arg Arg Arg Thr Met Ala Thr Gly Glu Met Lys Glu Phe Leu Gly
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ata aaa ggc aca gag ccc acc gat ttt gga atc aat agt gat gct cag      144
Ile Lys Gly Thr Glu Pro Thr Asp Phe Gly Ile Asn Ser Asp Ala Gln
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Pro Ser Pro Ser Arg Gln Ala Ser Thr Arg Arg Met Ser Ile Gly Glu
50     55     60
Ser Ile Asp Gly Lys Ile Asn Asp Trp Glu Glu Pro Arg Leu Asp Ile
65     70     75     80
Glu Gly Phe Val Val Asp Tyr Phe Thr His Arg Ile Arg Gln Asn Gly
85     90     95
Met Glu Trp Phe Gly Ala Pro Gly Leu Pro Cys Gly Val Gln Pro Glu
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His Glu Met Met Arg Val Met Gly Thr Ile Phe Glu Lys Lys His Ala
115    120    125
Glu Asn Phe Glu Thr Phe Cys Glu Gln Leu Leu Ala Val Pro Arg Ile
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Ser Phe Ser Leu Tyr Gln Asp Val Val Arg Thr Val Gly Asn Ala Gln
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Thr Asp Gln Cys Pro Met Ser Tyr Gly Arg Leu Ile Gly Leu Ile Ser
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Phe Gly Gly Phe Val Ala Ala Lys Met Met Glu Ser Val Glu Leu Gln
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Gly Gln Val Arg Asn Leu Phe Val Tyr Thr Ser Leu Phe Ile Lys Thr
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Arg Ile Arg Asn Asn Trp Lys Glu His Asn Arg Ser Trp Asp Asp Phe
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Ile Lys Gly Thr Glu Pro Thr Asp Phe Gly Ile Asn Ser Asp Ala Gln	
35 40 45	
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Gly Glu Ser Ile Asp Gly Lys Ile Asn Asp Trp Glu Glu Pro Arg Leu	
65 70 75	
gat atc gag gga ttt gtg gtc gac tat ttc acg cac cga atc cgg caa	288
Asp Ile Glu Gly Phe Val Val Asp Tyr Phe Thr His Arg Ile Arg Gln	
80 85 90	
aac gga atg gaa tgg ttt gga gca ccg gga ttg ccg tgt gga gtg caa	336
Asn Gly Met Glu Trp Phe Gly Ala Pro Gly Leu Pro Cys Gly Val Gln	
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ccg gag cac gaa atg atg cga gtt atg gga acg ata ttc gag aag aag	384
Pro Glu His Glu Met Met Arg Val Met Gly Thr Ile Phe Glu Lys Lys	
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cac gcg gaa aat ttt gag acc ttc tgt gag cag ctg ctc gca gtg ccc	432
His Ala Glu Asn Phe Glu Thr Phe Cys Glu Gln Leu Leu Ala Val Pro	
130 135 140	
aga atc tca ttt tca ctg aat cag gat gtg gtt cgg acg gtt gga aat	480
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Glu Ala Glu Lys Val Gly Arg Arg Lys Gln Asn Arg Arg Trp Ser Met			
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Ile Gly Ala Gly Val Thr Ala Gly Ala Ile Gly Ile Val Gly Val Val			
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Ile Lys Gly Thr Glu Pro Thr Asp Phe Gly Ile Asn Ser Asp Ala Gln			
35 40 45			
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Asp Leu Pro Ser Pro Ser Arg Gln Ala Ser Thr Arg Arg Met Ser Ile			
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Asn Gly Met Glu Trp Phe Gly Ala Pro Gly Leu Pro Cys Gly Val Gln			
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ccg gag cac gaa atg atg cga gtt atg gga acg ata ttc gag aag aag			384
Pro Glu His Glu Met Met Arg Val Met Gly Thr Ile Phe Glu Lys Lys			
	115	120	125
cac gcg gaa aat ttt gag acc ttc tgt gag cag ctg ctc gca gtg ccc			432
His Ala Glu Asn Phe Glu Thr Phe Cys Glu Gln Leu Leu Ala Val Pro			
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aga atc tca ttt tca ctg tat cag gat gtg gtt cgg acg gtt gga aat			480
Arg Ile Ser Phe Ser Leu Tyr Gln Asp Val Val Arg Thr Val Gly Asn			
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gca tag aca gat caa tgt cca atg tct tat gga cgt ttg ata ggt cta			528
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Leu Gln Gly Gln Val Arg Asn Leu Phe Val Tyr Thr Ser Leu Phe Ile			
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aaa acg cgg atc cgc aac aac tgg aag gaa cac aat cgg agc tgg gac			672
Lys Thr Arg Ile Arg Asn Asn Trp Lys Glu His Asn Arg Ser Trp Asp			
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Glu Ala Glu Lys Val Gly Arg Arg Lys Gln Asn Arg Arg Trp Ser Met			
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